

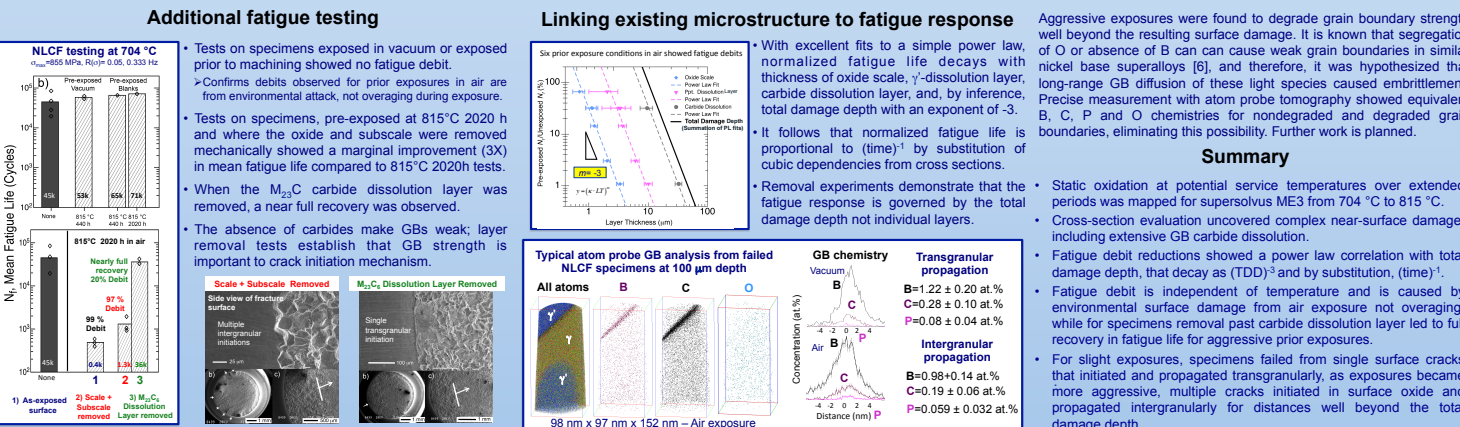
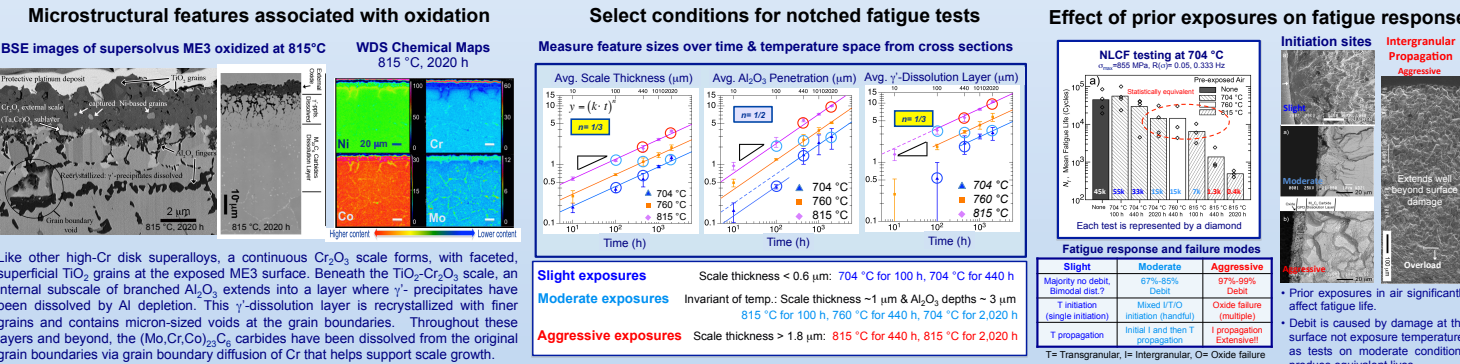
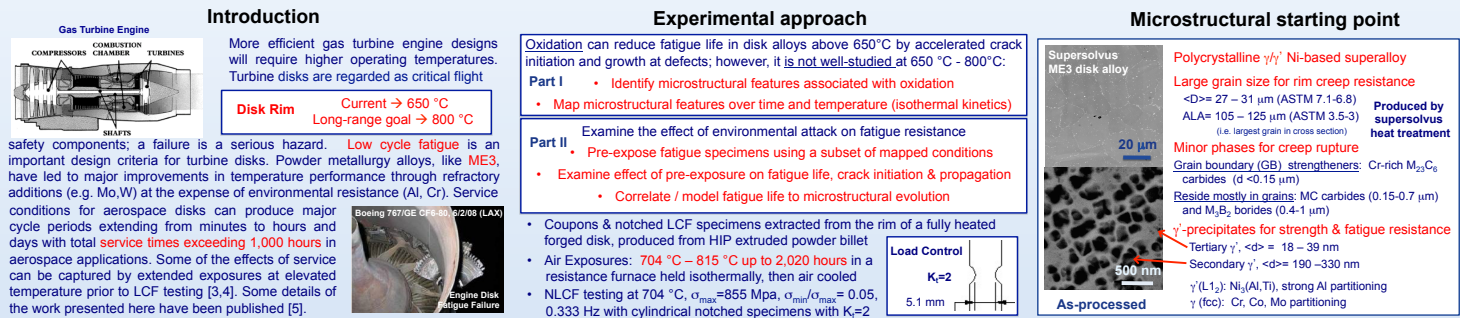


The effect of prior exposures on the notched fatigue behavior of disk superalloy ME3

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Motivation: Environmental attack has the potential to limit turbine disk durability [1,2], particularly in next generation engines which will run hotter; there is a need to understand better oxidation at potential service conditions and develop models that link microstructure to fatigue response.



References: [1] JH Chen, PM Rogers, JA Little, Oxidation of Metals 47 (1997) 381. [2] A Encinas-Cropea et al. in Superalloys 2008, 609. [3] TP Gabb et al. in Superalloys 2004, 269. [4] SD Antolovich, P Domas, JL Strudel, Met Trans A 10A (1979) 1859. [5] Sudbrack et al. in Superalloys 2012, 863. [6] RC Reed, The Superalloys: Fundamentals and Applications (2006) 252.

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